

Samarth Pal



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PERSONAL DETAILS

Current Location	Roorkee
Date of birth	May 27, 2003
Gender	Male



EDUCATION

Graduation	B.Tech/B.E. (Computers) DIT University, Dehradun, Dehradun with Score 6.2% B.Tech/B.E. (Computers) DIT University, Dehradun, Dehradun Achievements: Learned to tackle challenges and how to work toward our goal
Class XII	CBSE with 82% in 2021 Achievements: Top 10 in class
Class X	CBSE with 73% in 2019



INTERNSHIPS AND PROJECTS

Internships	Indian Institute of Technology Roorkee (IIT Roorkee) (Duration January 2025 - June 2025) During my internship at the Indian Institute of Technology Roorkee (IIT Roorkee), under the International Centre of Excellence for Dams (ICED), I had the opportunity to work on real-world problems related to civil infrastructure and data-driven risk analysis. My primary focus was on developing software tools to support seismic vulnerability and loss estimation for dams and associated structures. I contributed to backend development using Node.js and applied engineering models such as the SeisVARA framework for damage and loss prediction. This experience enhanced my technical skills, improved my understanding of interdisciplinary collaboration between software and civil engineering, and gave me valuable exposure to research-oriented problem solving. Skills used - PHP,React.js,JavaScript
Projects	Technook (Duration June 2024 - August 2024) Learn html css javascript and mongo db with many more skills. economic loss calculator (Duration April 2025 - May 2025) I worked on the development of an Economic Loss Calculator aimed at estimating potential financial losses due to seismic events affecting dams and related infrastructure. Integrating Capacity-Based Damage (CBD) models, damage probability matrices, and loss ratio frameworks to simulate realistic post-earthquake loss scenarios. This tool is designed to assist policymakers and engineers in risk-informed decision-making for dam safety and infrastructure resilience. Through this project i developed skills and gained hands-on experience in applying engineering concepts to solve critical real-world problems. Weather app (Duration January 2025 - January 2025) Weather app based on fetching api basic html css and javascript project tells about the weather conditions



SKILLS AND ACHIEVEMENTS

Skills	Web Development,Web Application Development,Front End,CSS,Java,HTML,Node.js,React.js,PHP,Backend
Language	English (Both)